Name of Work:- Improvements to Roads and drains in Munigurappa Layout in ward No.07, Byat[illegible]ayanapura

Estimated Cost:- 50.00 Lakhs

S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.143.Item No.19.1)								
	RCC DRAIN								
	1st cross		2	78.00	0.90	0.90	126.36		
	3rd cross		2	175.00	0.90	0.90	283.50		
	4th cross		2	75.00	0.90	0.90	121.50		
	5th cross		1	29.00	0.90	0.90	23.49		
	Over burden earth		1	15.00	1.20	1.20	21.60		
					TOTAL		**576.45**	137.80	79435.00
	Basic Rate:	cum	**130.00**						
	Area Weightage @ 6%		7.80						
	Total		**137.80**						
2	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8with OPC @ 180 kgs, using 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and including cost of all materials labour, HOM of machinery, curing complete as per specification . **(Pg.No.13, It.4.3)**								
	RCC DRAIN-BOTTOM								
	1st cross		2.00	78.00	0.75	0.15	17.55		
	3rd cross		2.00	175.00	0.75	0.15	39.38		
	4th cross		2.00	75.00	0.75	0.15	16.88		
	5th cross		1.00	29.00	0.75	0.15	3.26		
	For ramps- (Length for shoulder drains deducted)		2.00	68.00	0.15	0.10	2.04		
			2.00	165.00	0.15	0.10	4.95		
			2.00	65.00	0.15	0.10	1.95		
			1.00	19.00	0.15	0.10	0.29		
					TOTAL		**86.29**	5408.12	466654.00
	Basic Rate:	cum	5102.00						
	Area Weightage @ 6%		306.12						
	Total		5408.12						

3	KSRB 4.2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. Seocifications No. KBS 4.1,4.6 (Page NO. 14, Item NO. 4.11)								
	Bottom								
	1st cross		2.00	78.00	0.75	0.15	17.55		
	3rd cross		2.00	175.00	0.75	0.15	39.38		
	4th cross		2.00	75.00	0.75	0.15	16.88		
	5th cross		1.00	29.00	0.75	0.15	3.26		
	Side Wall								
	1st cross	**2x2**	4.00	78.00	0.15	0.60	28.08		
	3rd cross	**2x2**	4.00	175.00	0.15	0.60	63.00		
	4th cross	**2x2**	4.00	75.00	0.15	0.60	27.00		
	5th cross	**2x2**	2.00	29.00	0.15	0.60	5.22		
							200.36	5998.54	1201883.00
	Basic Rate:	cum	5659.00						
	Area Weightage @ 6%		339.54						
	Total		5998.54						
4	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.18, Item No.4.46.2)								
	Reinforcement for side wall						200.36		
			At 55 Kg % per cum				**11.02**	75223.96	828964.00
	Basic Rate:	Tonne	70966.00						
	Area Weightage @ 6%		4257.96						
	Total		75223.96						
5	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / **rectangular slabs /side walls** polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32)								
	SIDE WALL								
	1st cross	2x4	8	78.00		0.60	374.40		
	3rd cross	2x4	8	175.00		0.60	840.00		
	4th cross	2x4	8	75.00		0.60	360.00		
	5th cross	2x4	4	29.00		0.60	69.60		
							1644.00	483.36	794644.00
	Basic Rate:	Sqm	456.00						
	Area Weightage @ 6%		27.36						
	Total		483.36						

6	KSRB4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with ment @ 240 kgs, with 20 mm and down size graded granite matel coarse aggregates @ 0.69 cum and fine aggragtes @ 0.459cum, machine mixed concrete laid in layers not eceeding 15 cms, thick well compacted, in foundation, plinth and cills including cost of all materials, labour HOM machinery curing complate as per specifications. (Page No. 13. Item No. 4.6)								
	For ramps- (Length for shoulder drains deducted)	1X2	2.00	68.00	0.15	0.10	2.04		
		1X2	2.00	165.00	0.15	0.10	4.95		
		1X2	2.00	65.00	0.15	0.10	1.95		
		1X2	1.00	19.00	0.15	0.10	0.29		
							9.23	5747.32	53020.00
	Basic Rate:	cum	5422.00						
	Area Weightage @ 6%		325.32						
	Total		5747.32						
7	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete, 10cm thick (Item No.5.31.2, Pg No.25)								
	Covering Slab								
	1st cross		2	78		0.75	117.00		
	3rd cross		2	175		0.75	262.50		
	4th cross		2	75		0.75	112.50		
	5th cross		1	29		0.75	21.75		
							513.75	966.72	496652.40
	Basic Rate:	Sqm	912.00						
	Area Weightage @ 6%		54.72						
	Total		966.72						
8	KSRB 5-8.1: Providing one line dressing to granite stone slab/granite stone masonry as per specifications. (Item No.5.17, Pg No.26)								
	Covering Slab								
	1st cross		2	78		0.75	117.00		
	3rd cross		2	175		0.75	262.50		
	4th cross		2	75		0.75	112.50		
	5th cross		1	29		0.75	21.75		
							513.75	950.82	488483.78
	Basic Rate:	Sqm	897.00						
	Area Weightage @ 6%		53.82						
	Total		950.82						

9	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)								
	Basic Rate	cum	57.00				576.45	94.34	54383.00
	Rs. 2.50 Tonne Km.								
	Average Weight of earth 1.28 Tonne/Km. For 10 Km								
	Rs.2.50X1.28TonneX10K		32.00						
	Total		89.00						
	Add Area Weightage6%		5.34						
			94.34						
						Sub Total			4464119.18
10						Add 12% GST charges			535694.30
11						Miscelleneous charges			186.52
13						Total			5000000.00
14									

1)This is certified that the work spot comes under BBMP limits only.
2) The work spot is inspected by me
3) The items Provided in the Estimate are quite Essential
4)The rates are as per CSR of 2018-19 year of PWD Bangalore Circle.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive Engineer
Byatrayanapura Division
B.B.M.P.

ADMINISTRATIVELY SANCTIONED FOR Rs 50.00 lakhs.
Rupees fifty lakhs only
Under Job code - 007-18-000104

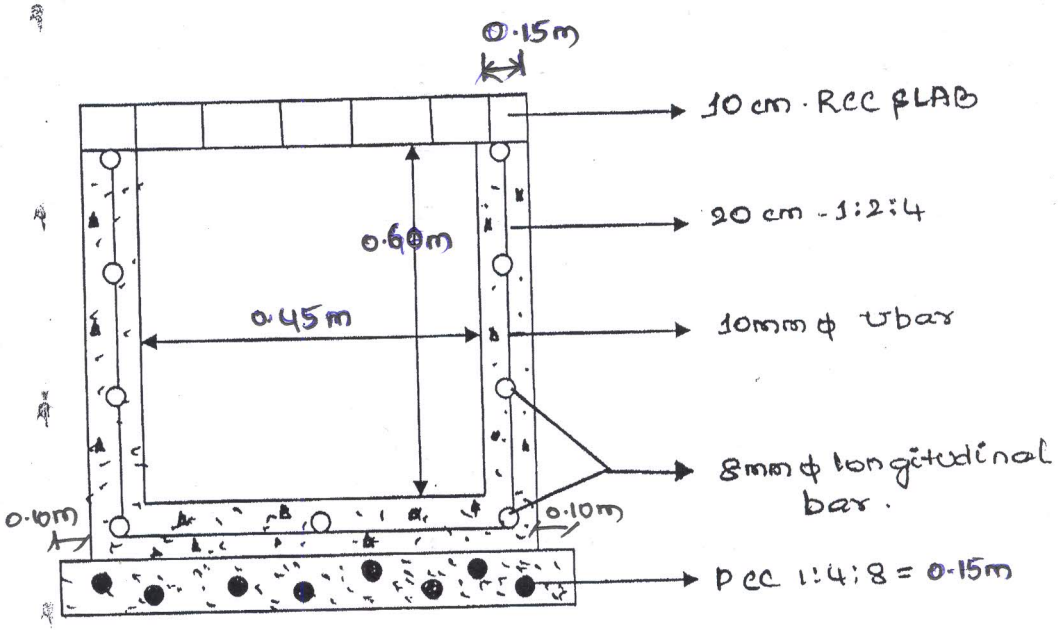
Technical Sanction
Accorded For RS50.00 lakhs only
Head of A/C P3173
CER NO 198 Dt: 08.01.2019

TA (YNK)

AC(4) AS/12/18-19
Dated 7-1-2019 50.00 lakhs.

Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92.

Name of work: Improvements to roads and drains of Mungerappa layout of Ward no.07, Byatarayanapura, Kodigehalli sub-division.

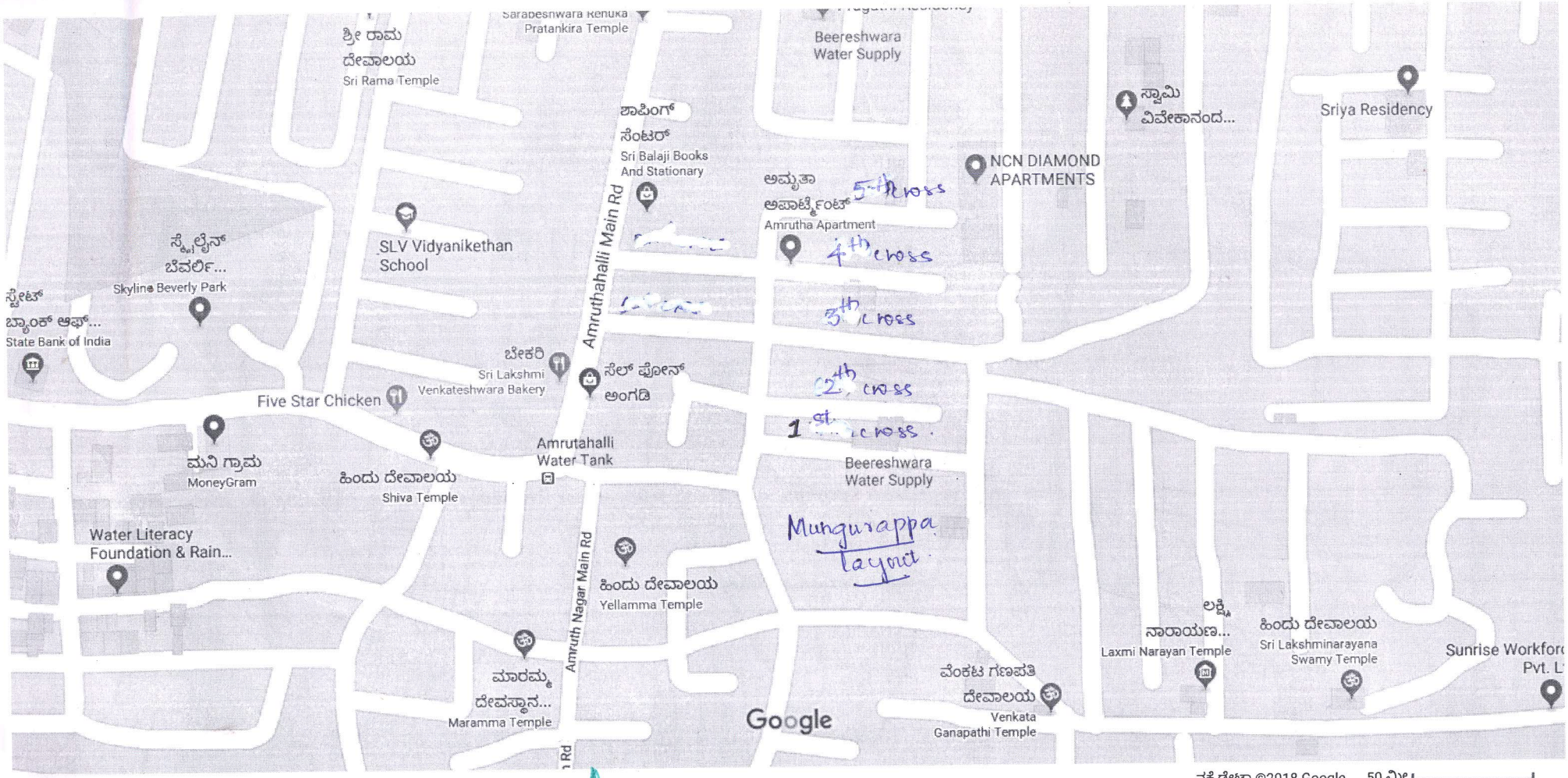


CROSS SECTION OF RCC DRAIN

Assistant Engineer
WardNo.07

Assistant Executive Engineer
Kodigehalli Sub Divsion

Google Improvements to Roads and drains in Munigurappa Layout in ward No.07, Byatarayanapura



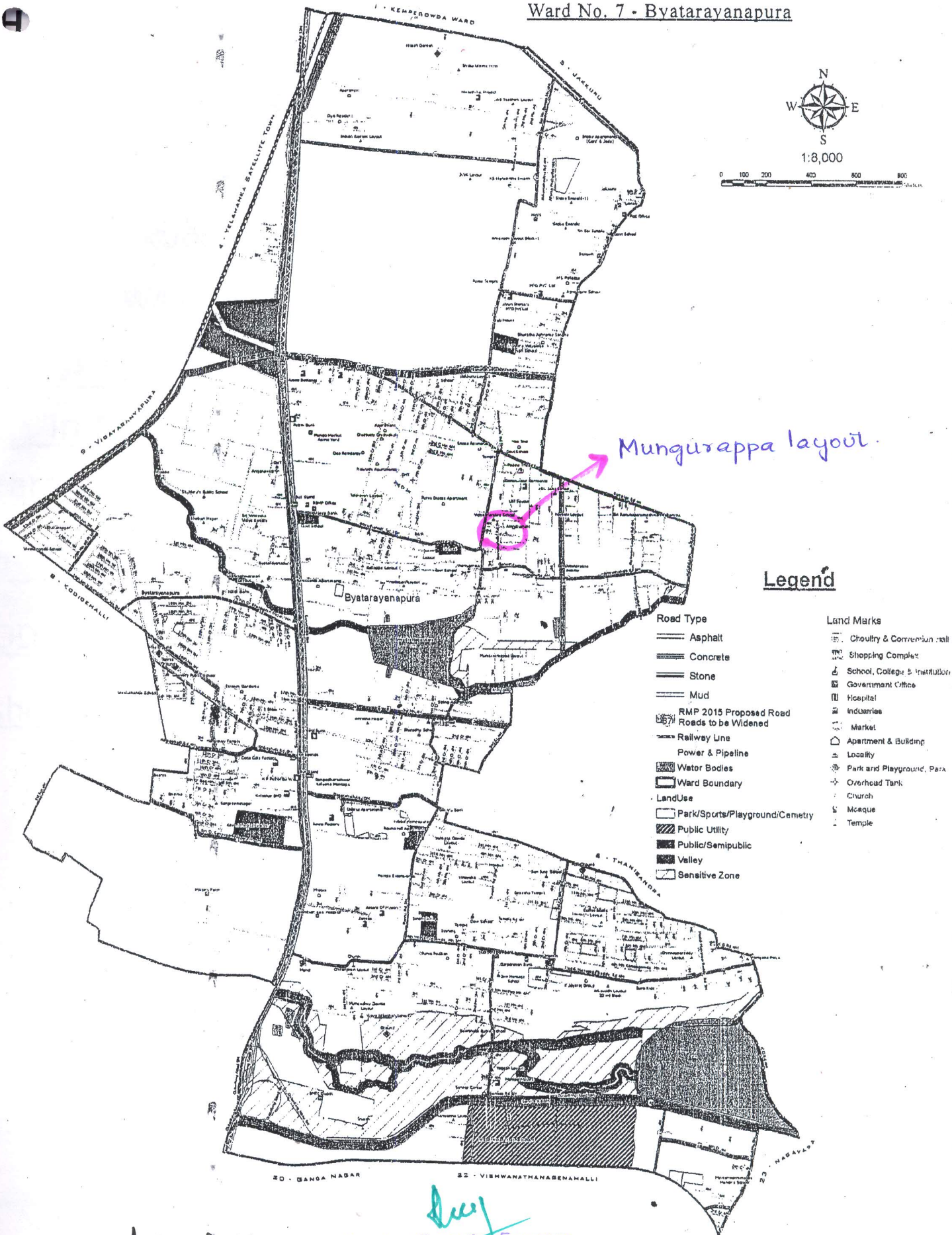
AE(WC)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara...
Bangalore - 560 032

BRUHATH BANGALORE MAHANAGAR PALIKE

Yelahanka Zone - Byatarayanapura Sub-division

Ward No. 7 - Byatarayanapura



Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Pal
Bangalore - 560 092

AE(W)